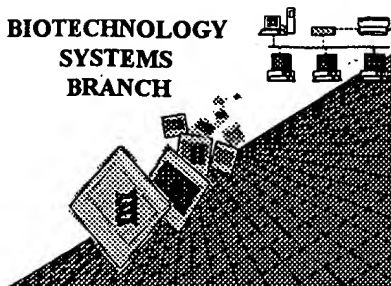


1680 1631

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RAW SEQUENCE LISTING
ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



#10
Plunkett

1-21-02

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/665,350A
Source: 01PE
Date Processed by STIC: 12/19/2001

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

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1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two,
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Arlington, VA 22202

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

5 <110> APPLICANT: Genentech, Inc.
 7 Ashkenazi, Avi
 9 Botstein, David
 11 Desnoyers, Luc
 13 Eaton, Dan L.
 15 Ferrara, Napoleone
 17 Filvaroff, Ellen
 19 Fong, Sherman
 21 Gao, Wei-Qiang
 23 Gerber, Hanspeter
 25 Gerritsen, Mary E.
 27 Goddard, A.
 29 Godowski, Paul J.
 31 Grimaldi, Christopher J.
 33 Gurney, Austin L.
 35 Hillan, Kenneth, J.
 37 Kljavin, Ivar J.
 39 Mather, Jennie P.
 41 Pan, James
 43 Paoni, Nicholas F.
 45 Roy, Margaret Ann
 47 Stewart, Timothy A.
 49 Tumas, Daniel
 51 Williams, P. Mickey
 53 Wood, William, I.
 57 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 59 Acids Encoding the Same
 63 <130> FILE REFERENCE: 10466-14
 67 <140> CURRENT APPLICATION NUMBER: 09/665,350A
 69 <141> CURRENT FILING DATE: 2000-09-18
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 81 <150> PRIOR APPLICATION NUMBER: US 60/143,048
 W--> 83 <151> PRIOR FILING DATE: 1999
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 W--> 115 <151> PRIOR FILING DATE: 1999

Does Not Comply
 Corrected Diskette Needed

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RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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 E--> 205 <160> NUMBER OF SEQ ID NOS: 423

P. 37

ERRORED SEQUENCES

369 <210> SEQ ID NO: 2
 371 <211> LENGTH: 353
 373 <212> TYPE: PRT
 375 <213> ORGANISM: Homo Sapien
 379 <400> SEQUENCE: 2
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 383 1 5 10 15
 387 Leu Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro
 389 20 25 30
 393 Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
 395 35 40 45

P. 3

DATE: 12/19/2001

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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401					50					55					60
405	Glu	Glu	Lys	Thr	Leu	Ser	Lys	Tyr	Glu	Ser	Ser	Glu	Ile	Arg	Leu
407					65					70					75
411	Leu	Glu	Ile	Leu	Glu	Gly	Leu	Cys	Glu	Ser	Ser	Asp	Phe	Glu	Cys
413					80					85					90
417	Asn	Gln	Met	Leu	Glu	Ala	Gln	Glu	Glu	His	Leu	Glu	Ala	Trp	Trp
419					95					100					105
423	Leu	Gln	Leu	Lys	Ser	Glu	Tyr	Pro	Asp	Leu	Phe	Glu	Trp	Phe	Cys
425					110					115					120
429	Val	Lys	Thr	Leu	Lys	Val	Cys	Cys	Ser	Pro	Gly	Thr	Tyr	Gly	Pro
431					125					130					135
435	Asp	Cys	Leu	Ala	Cys	Gln	Gly	Gly	Ser	Gln	Arg	Pro	Cys	Ser	Gly
437					140					145					150
441	Asn	Gly	His	Cys	Ser	Gly	Asp	Gly	Ser	Arg	Gln	Gly	Asp	Gly	Ser
443					155					160					165
447	Cys	Arg	Cys	His	Met	Gly	Tyr	Gln	Gly	Pro	Leu	Cys	Thr	Asp	Cys
449					170					175					180
E--> 451	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
E--> 453	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 455	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 457	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 459	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 461	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 463	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
E--> 465	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
E--> 467	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
E--> 469	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 471	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 473	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 475	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
E--> 477	Met	Asp	Gly	Tyr	Phe	Ser	Ser	Leu	Arg	Asn	Glu	Thr	His	Ser	Ile
479					185					190					195
483	Cys	Thr	Ala	Cys	Asp	Glu	Ser	Cys	Lys	Thr	Cys	Ser	Gly	Leu	Thr
485					200					205					210
489	Asn	Arg	Asp	Cys	Gly	Glu	Cys	Glu	Val	Gly	Trp	Val	Leu	Asp	Glu
491					215					220					225
495	Gly	Ala	Cys	Val	Asp	Val	Asp	Glu	Cys	Ala	Ala	Glu	Pro	Pro	Pro
497					230					235					240
501	Cys	Ser	Ala	Ala	Gln	Phe	Cys	Lys	Asn	Ala	Asn	Gly	Ser	Tyr	Thr
503					245					250					255
507	Cys	Glu	Glu	Cys	Asp	Ser	Ser	Cys	Val	Gly	Cys	Thr	Gly	Glu	Gly
509					260										

Non-ASCII characters
these may indicate
format markers or
a corrupted
disk sector

DATE: 12/19/2001

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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537	Val	Pro	Pro	Ala	Glu	Ala	Glu	Ala	Thr	Glu	Gly	Glu	Ser	Pro	Thr
539					335					340					345
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545					350										
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747	<400> SEQUENCE: 4														
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755	Ser	Ile	Leu	Leu	Cys	Leu	Leu	Ala	Leu	Arg	Ala	Glu	Ala	Gly	Pro
757					20					25					30
761	Pro	Gln	Glu	Glu	Ser	Leu	Tyr	Leu	Trp	Ile	Asp	Ala	His	Gln	Ala
763					35					40					45
767	Arg	Val	Leu	Ile	Gly	Phe	Glu	Glu	Asp	Ile	Leu	Ile	Val	Ser	Glu
769					50					55					60
773	Gly	Lys	Met	Ala	Pro	Phe	Thr	His	Asp	Phe	Arg	Lys	Ala	Gln	Gln
775					65					70					75
779	Arg	Met	Pro	Ala	Ile	Pro	Val	Asn	Ile	His	Ser	Met	Asn	Phe	Thr
781					80					85					90
785	Trp	Gln	Ala	Ala	Gly	Gln	Ala	Glu	Tyr	Phe	Tyr	Glu	Phe	Leu	Ser
787					95					100					105
791	Leu	Arg	Ser	Leu	Asp	Lys	Gly	Ile	Met	Ala	Asp	Pro	Thr	Val	Asn
793					110					115					120
797	Val	Pro	Leu	Leu	Gly	Thr	Val	Pro	His	Lys	Ala	Ser	Val	Val	Gln
799					125					130					135
803	Val	Gly	Phe	Pro	Cys	Leu	Gly	Lys	Gln	Asp	Gly	Val	Ala	Ala	Phe
805					140					145					150
809	Glu	Val	Asp	Val	Ile	Val	Met	Asn	Ser	Glu	Gly	Asn	Thr	Ile	Leu
811					155					160					165
815	Gln	Thr	Pro	Gln	Asn	Ala	Ile	Phe	Phe	Lys	Thr	Cys	Gln	Gln	Ala
817					170					175					180
821	Glu	Cys	Pro	Gly	Gly	Cys	Arg	Asn	Gly	Gly	Phe	Cys	Asn	Glu	Arg
823					185					190					195
827	Arg	Ile	Cys	Glu	Cys	Pro	Asp	Gly	Phe	His	Gly	Pro	His	Cys	Glu
829					200					205					210
833	Lys	Ala	Leu	Cys	Thr	Pro	Arg	Cys	Met	Asn	Gly	Gly	Leu	Cys	Val
835					215										

E--> 855 +?+++++'++++++?%++++++???5?5?5???????5???????

E--> 857 ??????+++++++?+++++++?+++++++????????????????

270
same error

see pp 5-6

DATE: 12/19/2001

TIME: 10:29:06

Output Set: N:\CRF3\12192001\I665350A.raw

same

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 959 ?????????????????????4????????????????????
E--> 961 ???4????????4????????????????????????????
E--> 963 ?????????4????????????????????????????
E--> 965 ?????????????????????????????????4????????
E--> 967 ?????????????????????????????4????????????
E--> 969 ??5?o?5??+?+++++?+++++?+++++?+++++?+++++
    971 ?????????????????+?+++++?%+++++?`+++++?+++++5?5?
E--> 973 ??5??5?o??o????????+?+++++?+++++?+++++?+++++
E--> 975 ?????????????????????????+?+++++?%+++++?`+++++
E--> 977 +??????4????????o????????+?+++++?+++++?
E--> 979 ++++++?+++++?+++++?+++++?+++++?+++++?%+
E--> 981 ++++++?`+++++?+++++?+++++?+++++?+++++?+++++
E--> 983 ++++++?+++++?+++++?+++++?+++++?+++++?+++++
E--> 985 ++++++?+++++?%+++++?`+++++?+++++?+++++?+++++
E--> 987 ++++++?+++++?+++++?+++++?+++++?+++++?+++++
E--> 989 ++++++?+++++?%+++++?`+++++?+++++?+++++?+++++
E--> 991 ++++++?+++++?+++++?+++++?+++++?+++++?+++++
E--> 993 ++++++?+++++?+++++?+++++?+++++?+++++?+++++
E--> 995 ++++++?+++++?+++++?+++++?+++++?+++++?+++++
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E--> 999 +?%+++++?`+++++?+++++?+++++?+++++?+++++?+++++
E--> 1001 ?+++++?+++++?+++++?+++++?+++++?+++++?+++++
E--> 1003 ?????????+?+++++?%+++++?`+++++?+++++?+++++?+++++
E--> 1005 ?????????+?+++++?+++++?+++++?+++++?+++++?+++++
E--> 1007 ?????????+?+++++?%+++++?`+++++?+++++?+++++?+++++
E--> 1009  Glu Gln Cys Glu Ile Ser Lys Cys Pro Gln Pro Cys Arg Asn Gly
    1011                275                280                285
    1015  Gly Lys Cys Ile Gly Lys Ser Lys Cys Lys Cys Ser Lys Gly Tyr
    1017                290                295                300
    1021  Gln Gly Asp Leu Cys Ser Lys Pro Val Cys Glu Pro Gly Cys Gly
    1023                305                310                315
    1027  Ala His Gly Thr Cys His Glu Pro Asn Lys Cys Gln Cys Gln Glu
    1029                320                325                330
    1033  Gly Trp His Gly Arg His Cys Asn Lys Arg Tyr Glu Ala Ser Leu
    1035                335                340                345
    1039  Ile His Ala Leu Arg Pro Ala Gly Ala Gln Leu Arg Gln His Thr
    1041                350                355                360
    1045  Pro Ser Leu Lys Lys Ala Glu Glu Arg Arg Asp Pro Pro Glu Ser
    1047                365                370                375
E--> 1051  Asn Tyr Ile Trp
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2327 <211> LENGTH: 660
2329 <212> TYPE: PRT
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2337  Met Gly Leu Gln Thr Thr Lys Trp Pro Ser His Gly Ala Phe Phe
2339      1                5                10                15
2343  Leu Lys Ser Trp Leu Ile Ile Ser Leu Gly Leu Tyr Ser Gln Val

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*same**pr 7-13*

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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2357          50          55          60
2361 Ile Pro Glu Gly Val Thr Val Leu Tyr Leu His Asn Asn Gln Ile
2363          65          70          75
2367 Asn Asn Ala Gly Phe Pro Ala Glu Leu His Asn Val Gln Ser Val
2369          80          85          90
2373 His Thr Val Tyr Leu Tyr Gly Asn Gln Leu Asp Glu Phe Pro Met
2375          95         100         105
2379 Asn Leu Pro Lys Asn Val Arg Val Leu His Leu Gln Glu Asn Asn
2381         110         115         120
2385 Ile Gln Thr Ile Ser Arg Ala Ala Leu Ala Gln Leu Leu Lys Leu
2387         125         130         135
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2395 +?++++++\++++++?%++++++????????????????????????4
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E--> 2457 ??????++++++?++++++?++++++?++++++?++++++?++++++?
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RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 2461 ?????????????????????????????????????????????
E--> 2463 ?????????????????????????????????????????????
E--> 2465 ???????????????4??????????5?5?????5???5???+?+++++
E--> 2467 +?+++++++?+++++++? ?????????????????????????????
E--> 2469 +++++++?%+++++++?'+++++++? ??????4???o???5????????
E--> 2471 ?5?????+++++++?+++++++?+++++++? ?????????????????
E--> 2473 ??????????????+++++++?%+++++++?'+++++++? ?????????
E--> 2475 ?5?o?????????????????+++++++?+++++++?+++++++? ?????
E--> 2477 ??????????????????????????????+++++++?%+++++++?'+++++++?
E--> 2479 ???5???5??????????4?????????????+++++++?+++++++? ????
E--> 2481 +++++? ??????????????????????????????????????+++++++?%+++
E--> 2483 +++++?'+++++++? ???????5?5?????????????????????????+++++++
E--> 2485 +??+++++++? ?+++++++? ?????????????????????????????
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E--> 2551 ?????????????????????????????????????
E--> 2553 ??????????4??????????????????????4????
E--> 2555 ?????????????????????????????????????
```

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 2557 ?????????????????????4????????????????????
E--> 2559 ?????????????????????????????????????????
E--> 2561 ?????????????????????????????????????????
E--> 2563 ?????????????????????????????????????????
E--> 2565 ?????????????????????????????4????????????
E--> 2567 ?????????????????????????????????????????
E--> 2569 ?????????????????4????????????????????
E--> 2571 ??4????????????????????????4????4????????
E--> 2573 ?????????????????4??5?????????o????????
E--> 2575 ???????+?+++++?+++++?+++++?+++++?+++++?
E--> 2577 ??????????+++++?%+++++?'+++++?+++++?5?5??
E--> 2579 ??????????o????+?+++++?+++++?+++++?+++++?
E--> 2581 ??????????+++++?%+++++?'+++++?
E--> 2583 ??????5?????5??5????????+?+++++?+++++?++
E--> 2585 +++++?+++++?+++++?+++++?+++++?%+++
E--> 2587 +++++?'+++++?+++++?5?????5?o?5?????+++++
E--> 2589 +++?+++++?+++++?+++++?+++++?+++++?+++++?
E--> 2591 ??+++++?%+++++?'+++++?+++++?+++++?5????
E--> 2593 ?5?5????+?+++++?+++++?+++++?+++++?+++++?
E--> 2595 ??????????+++++?%+++++?'+++++?
E--> 2597  Glu Asp Gly Ala Phe Arg Glu Ala Ile Ser Leu Lys Leu Leu Phe
2599              155              160              165
2603  Leu Ser Lys Asn His Leu Ser Ser Val Pro Val Gly Leu Pro Val
2605              170              175              180
2609  Asp Leu Gln Glu Leu Arg Val Asp Glu Asn Arg Ile Ala Val Ile
2611              185              190              195
2615  Ser Asp Met Ala Phe Gln Asn Leu Thr Ser Leu Glu Arg Leu Ile
2617              200              205              210
2621  Val Asp Gly Asn Leu Leu Thr Asn Lys Gly Ile Ala Glu Gly Thr
2623              215              220              225
2627  Phe Ser His Leu Thr Lys Leu Lys Glu Phe Ser Ile Val Arg Asn
2629              230              235              240
2633  Ser Leu Ser His Pro Pro Pro Asp Leu Pro Gly Thr His Leu Ile
2635              245              250              255
2639  Arg Leu Tyr Leu Gln Asp Asn Gln Ile Asn His Ile Pro Leu Thr
2641              260              265              270
2645  Ala Phe Ser Asn Leu Arg Lys Leu Glu Arg Leu Asp Ile Ser Asn
2647              275              280              285
2651  Asn Gln Leu Arg Met Leu Thr Gln Gly Val Phe Asp Asn Leu Ser
2653              290              295              300
2657  Asn Leu Lys Gln Leu Thr Ala Arg Asn Asn Pro Trp Phe Cys Asp
2659              305              310              315
2663  Cys Ser Ile Lys Trp Val Thr Glu Trp Leu Lys Tyr Ile Pro Ser
2665              320              325              330
2669  Ser Leu Asn Val Arg Gly Phe Met Cys Gln Gly Pro Glu Gln Val
2671              335              340              345
2675  Arg Gly Met Ala Val Arg Glu Leu Asn Met Asn Leu Leu Ser Cys
2677              350              355              360
2681  Pro Thr Thr Thr Pro Gly Leu Pro Leu Phe Thr Pro Ala Pro Ser

```

DATE: 12/19/2001

TIME: 10:29:06

Output Set: N:\CRF3\12192001\I665350A.raw

Abstract

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
E--> 2795 ??????????????????????????????????????%?????????'+++++?????
E--> 2797 ???????5????????????????????????????????????
E--> 2799 ?????????????????????????????????????????????????
E--> 2801 ?????????????????????????????????????????????????
E--> 2803 ?????????????????????????????????????????????????
E--> 2805 ?????????????????????????????????????????????????
E--> 2807 ?????????????????????????????????????????????????
E--> 2809 ????????????????????????????????????4????????????????
E--> 2811 ????????????????????????4????????????????????????????
    2813 ??????????????????????????????????????????????????4?
E--> 2815 ?????????????????????????????????????????????????????
E--> 2817 ?????????????????????????????????????????????????????
E--> 2819 ????????????????????????????????????4????????????????
E--> 2821 ????????????????????????????????????????????????????4????
E--> 2823 ????????????????????????????????4????????????????????
E--> 2825 ????????????????????????????????????4???????????4????
E--> 2827 ?????????????????????????????????????????????????????
E--> 2829 ?????????????????????????????????????????????????????
E--> 2831 ?????????????????????????????????????????????????????
E--> 2833 ????????????????????????????????4????????????????????
E--> 2835 ????????????????????????????????????????????????4????
E--> 2837 ?????????????????????????????????????????????????????
E--> 2839 ?????4????????????????????????????????????????????
E--> 2841 ??????????????????????????????????????????????+????+'+++
E--> 2843 ++++?%++++++?5?5???5????????????????????o????+++++
E--> 2845 ++++?++++++?+????????????????????????????????????
E--> 2847 ??++++++?'++++++?%++++++?5????????????????????
E--> 2849 ???????+????++?+????++?+????++?+????????????????
E--> 2851 ???????????????+????++?'++++++?%++++++?5???o
E--> 2853 ?????????????????????????????+????++?+????++?+????
E--> 2855 ?????????????????????????????????+????++?'++++++?%++++++
E--> 2857 ?????????????????????????o????????????+????++?+????
E--> 2859 ?+????+? ?????????????????????????????????????+????+
E--> 2861 '+'++++++?%++++++?5???o???4????????????????????++
E--> 2863 ++++++?+????++?+????++?+????????????????????????
E--> 2865 ???????+????++?+????++?+????++?+????????????????
    2867 ???????????????+????++?%++++++?'++++++?+?????????5
E--> 2869 ?????????????????????????+????++?+????++?+????++?+????
E--> 2871 ?????????????????????+????++?%++++++?+????????????
E--> 2873 ?????????????????????????????????????????????????
E--> 2875 ?????????????????????????????????????????????????
E--> 2877 ????????????????????????????????????4????????????
E--> 2879 ?????????????????????????????????????????????????
E--> 2881 ????????????????????????????????????????????4????
E--> 2883 ?????????????????????????????????????????????????
E--> 2885 ??4???????????????????????????????????4????????????
    2887 ??????????????????????????????????????????????????4
E--> 2889 ????????????????????????4????????????????????????
E--> 2891 ??????????????????????????????????????????????????4??
```

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:06

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
E--> 2893 ?????????????????????????????????4?????????????
E--> 2895 ???????????4?????????????????????????????????
E--> 2897 ??????????????????????????????????????????????
E--> 2899 ??????????????????????????????????????????????
E--> 2901 ???????4?????????????????????????????????????
E--> 2903 ???????4??????????????4????????????????????4??
E--> 2905 ??????????????????????????????????????????????
E--> 2907 4??????????????????????????????????????4?????????
E--> 2909 ???????????????4???????????????????????????????
E--> 2911 ???????????????????????????????????4???????????
E--> 2913 ???????????????????????????????4???????????????
E--> 2915 ???????????4??????????????????????????????4???
E--> 2917 ??????????????????????????????????????????????
E--> 2919 ??????????????????????????????????????????????
E--> 2921 ???????????????????????????????????????????4?????
E--> 2923 ??????????????????????????????????????????????
E--> 2925 ??????????????????????????????????????????????
E--> 2927 ???????????????????????????4???????????????????
E--> 2929 ?????????4??????????4??????????4????????4?????
E--> 2931 ??????????????????????????????????????????????
E--> 2933 4??????????????????????????????????4?????????????
E--> 2935 ?????4??????????4?????????4???????????????????
E--> 2937 ??????????????????????????????????????????????
E--> 2939 ??????????????????????????????????????????????
E--> 2941 ??????????????????????????????????????????????
E--> 2943 ???????????????????????????????????????4???????
E--> 2945 ???4??????????????????????????????????????4???
E--> 2947 ?????????4?????????????????????????????????????
E--> 2949 ??????????????????????????????????????????????
E--> 2951 ?????????????????????????????????????????+????+
E--> 2953 ++++++?%+++++??5?????o?5?????5??5????????++
E--> 2955 ++++++?+++++?+++++? ??????????????????????????
E--> 2957 ???+????+? \+++++?%+++++? ??????????5?????5??
E--> 2959 ??????5??+????+?+++++?+????+? ??????????????
E--> 2961 ?????????????????+????+? \+++++?%+++++? ??????
E--> 2963 ??????5?5????????????+????+?+????+?+????+? ???
E--> 2965 ??????????????????????????????+????+? \+++++?%++++
E--> 2967 +++?????5?????????????5??5??5? ???+????+?+????+
E--> 2969 ??+????+? ?????????????????????????????????+????+
E--> 2971 ? \+++++?%+++++??5?5?5?5??5?o?o? ??????????????
E--> 2973 ++++++?+????+?+????+? ??????????????????????????
E--> 2975 ?????????+????+? \+++++?%+++++? ?5?????????5????
E--> 2977 ??????????5????+????+?+????+?+????+? ??????????
E--> 2979 ?????????????????????+????+? \+++++?%+++++? ???
E--> 2981 o?4?????????5??5??5?5?5?+????+?+????+?+????+
E--> 2983 +????????????????????????????+????+? \+++++
E--> 2985 ?%+++++? ??????????5??5??5?5?5? ?????????+????+
E--> 2987 ++++++?+????+? ?????????????????????????????????
E--> 2989 ++++++? \+++++?%+++++? ??????5??5??5?o? ?????????
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DATE: 12/19/2001

TIME: 10:29:07

Output Set: N:\CRF3\12192001\I665350A.raw

file://C:\Crf3\Outhold\VsI665350A.htm

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 3601 ?????????????????????????????????????????????
E--> 3603 ?????????????????????????????????????4????????
E--> 3605 ?????????????????????????????????????????????
E--> 3607 4????????????????????????????????????????????
E--> 3609 ?????????????????????????????????????????????
E--> 3611 ?????????4????????????????????????????????????
E--> 3613 ?????????????????4????????????????????????????
E--> 3615 ?4????????4????????????????????????????????????
E--> 3617 ?????????????????????????????????????????????
E--> 3619 ?????????????????????????????????????????????
E--> 3621 ?????????4????????????4????????????????4????
    3623 ?????4????????????????????????????????????4?
E--> 3625 ?????????4????????????????????????????????????
E--> 3627 ?????4????????????????????????????????????????
E--> 3629 ?????????????????????????????????????????????
E--> 3631 ?????????????????????????????????????????????
E--> 3633 ?????????????????????4????????????????????????
E--> 3635 ?????????????????????????????????????????????
E--> 3637 ?????????????????????????????????????????????
E--> 3639 ?????????????????????????????????4????????4????
    3641 ?????????????4????????4????????4????????4?
E--> 3643 ?????????????????????????????????????4?????
E--> 3645 ???4?????????????????????????????????????????
E--> 3647 ?????????????????????????????????????4?????
E--> 3649 ?????????????????????????4?????????????????
E--> 3651 ?????????????????4????????4????????4?????
E--> 3653 ?????4?????????????????????????????????????
E--> 3655 ?4????????4????????????????????????????4??
E--> 3657 ?????????????4????????????????4?????????
E--> 3659 ?????????4????????????????????????????????
E--> 3661 ??????????????????????????????????????????
E--> 3663 ??????????????+++++++\++++++?%+++++??????5?5???
E--> 3665 ??5?????5????????????++++++?++++++?++++++?
E--> 3667 ?????????????????????????++++++?\++++++?%+++++?
E--> 3669 ??5?5?5??????5????????o?5????++++++?++++++?++
E--> 3671 ++++++????????????????????????????++++++?\++++
E--> 3673 +++++?%+++++????????5???????o???5????5?o????++++
E--> 3675 +++?+++++?+++++?+++++?+++++?+++++?+++++?
E--> 3677 ??++++++?\++++++?%+++++?????
E--> 3679  Lys Asn Glu Phe Ser Leu Lys Thr Phe Lys Arg Lys Ser Glu Val
    3681                110                115                120
    3685  Glu Arg Ala Val Lys Arg Met Arg His Leu Ser Thr Gly Thr Met
    3687                125                130                135
    3691  Thr Gly Leu Ala Ile Gln Tyr Ala Leu Asn Ile Ala Phe Ser Glu
    3693                140                145                150
    3697  Ala Glu Gly Ala Arg Pro Leu Arg Glu Asn Val Pro Arg Val Ile
    3699                155                160                165
    3703  Met Ile Val Thr Asp Gly Arg Pro Gln Asp Ser Val Ala Glu Val
    3705                170                175                180

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RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
3709  Ala Ala Lys Ala Arg Asp Thr Gly Ile Leu Ile Phe Ala Ile Gly
3711                185                190                195
3715  Val Gly Gln Val Asp Phe Asn Thr Leu Lys Ser Ile Gly Ser Glu
3717                200                205                210
3721  Pro His Glu Asp His Val Phe Leu Val Ala Asn Phe Ser Gln Ile
3723                215                220                225
3727  Glu Thr Leu Thr Ser Val Phe Gln Lys Lys Leu Cys Thr Ala His
3729                230                235                240
3733  Met Cys Ser Thr Leu Glu His Asn Cys Ala His Phe Cys Ile Asn
3735                245                250                255
3739  Ile Pro Gly Ser Tyr Val Cys Arg Cys Lys Gln Gly Tyr Ile Leu
3741                260                265                270
3745  Asn Ser Asp Gln Thr Thr Cys Arg Ile Gln Asp Leu Cys Ala Met
3747                275                280                285
3751  Glu Asp His Asn Cys Glu Gln Leu Cys Val Asn Val Pro Gly Ser
3753                290                295                300
3757  Phe Val Cys Gln Cys Tyr Ser Gly Tyr Ala Leu Ala Glu Asp Gly
3759                305                310                315
3763  Lys Arg Cys Val Ala Val Asp Tyr Cys Ala Ser Glu Asn His Gly
3765                320                325                330
3769  Cys Glu His Glu Cys Val Asn Ala Asp Gly Ser Tyr Leu Cys Gln
3771                335                340                345
3775  Cys His Glu Gly Phe Ala Leu Asn Pro Asp Glu Lys Thr Cys Thr
3777                350                355                360
3781  Arg Ile Asn Tyr Cys Ala Leu Asn Lys Pro Gly Cys Glu His Glu
3783                365                370                375
3787  Cys Val Asn Met Glu Glu Ser Tyr Tyr Cys Arg Cys His Arg Gly
3789                380                385                390
3793  Tyr Thr Leu Asp Pro Asn Gly Lys Thr Cys Ser Arg Val Asp His
3795                395                400                405
3799  Cys Ala Gln Gln Asp His Gly Cys Glu Gln Leu Cys Leu Asn Thr
3801                410                415                420
E--> 3805  ++++++?%+++++?`+++++?5?????????4????5????
E--> 3807  ??????+++++?+?+++++?+?+++++?5????????????????
E--> 3809  ??????+++++?%+++++?`+++++?5????????
E--> 3811  ?5????5????????+?+++++?+?+++++?5????????
E--> 3813  ??????5????????+?+++++?%+++++?`+++++
E--> 3815  ??????o????5????+?+++++?+?+++++
E--> 3817  ?+++++?5????????+?+++++
E--> 3819  %+++++?`+++++?5o????5????+
E--> 3821  ++++++?+?+++++?5????+
E--> 3823  ??????+?%+++++?`+++++?4????555????
E--> 3825  ??????+?+?+++++?+?+++++?5????
E--> 3827  ??????+?%+++++?`+++++?
E--> 3829  o????5????+?+++++?+?+++++
E--> 3831  ??????+?%+++++
E--> 3833  `+++++?5??5o?+?+
E--> 3835  ++++++?+?+++++?+?+++++
E--> 3837  ++++++?%+++++?`+++++?5??5????o????
```

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 3839 5????????????????????????????????????????
E--> 3841 ?????????????????????????????????????????
E--> 3843 ?5????????????????????????????????????????
E--> 3845 ?????????????????????????????????????????
E--> 3847 ??????5?o????????????????????????????o??+????????????????????
E--> 3849 ++++++????????????????????????????????????+?%+
E--> 3851 ++++++?'+++++?????
E--> 3853  Glu Asp Ser Phe Val Cys Gln Cys Ser Glu Gly Phe Leu Ile Asn
      3855          425          430          435
      3859  Glu Asp Leu Lys Thr Cys Ser Arg Val Asp Tyr Cys Leu Leu Ser
      3861          440          445          450
      3865  Asp His Gly Cys Glu Tyr Ser Cys Val Asn Met Asp Arg Ser Phe
      3867          455          460          465
      3871  Ala Cys Gln Cys Pro Glu Gly His Val Leu Arg Ser Asp Gly Lys
      3873          470          475          480
      3877  Thr Cys Ala Lys Leu Asp Ser Cys Ala Leu Gly Asp His Gly Cys
      3879          485          490          495
      3883  Glu His Ser Cys Val Ser Ser Glu Asp Ser Phe Val Cys Gln Cys
      3885          500          505          510
      3889  Phe Glu Gly Tyr Ile Leu Arg Glu Asp Gly Lys Thr Cys Arg Arg
      3891          515          520          525
      3895  Lys Asp Val Cys Gln Ala Ile Asp His Gly Cys Glu His Ile Cys
      3897          530          535          540
      3901  Val Asn Ser Asp Asp Ser Tyr Thr Cys Glu Cys Leu Glu Gly Phe
      3903          545          550          555
      3907  Arg Leu Ala Glu Asp Gly Lys Arg Cys Arg Arg Lys Asp Val Cys
      3909          560          565          570
      3913  Lys Ser Thr His His Gly Cys Glu His Ile Cys Val Asn Asn Gly
      3915          575          580          585
      3919  Asn Ser Tyr Ile Cys Lys Cys Ser Glu Gly Phe Val Leu Ala Glu
      3921          590          595          600
      3925  Asp Gly Arg Arg Cys Lys Lys Cys Thr Glu Gly Pro Ile Asp Leu
      3927          605          610          615
      3931  Val Phe Val Ile Asp Gly Ser Lys Ser Leu Gly Glu Glu Asn Phe
      3933          620          625          630
      3937  Glu Val Val Lys Gln Phe Val Thr Gly Ile Ile Asp Ser Leu Thr
      3939          635          640          645
      3943  Ile Ser Pro Lys Ala Ala Arg Val Gly Leu Leu Gln Tyr Ser Thr
      3945          650          655          660
      3949  Gln Val His Thr Glu Phe Thr Leu Arg Asn Phe Asn Ser Ala Lys
      3951          665          670          675
      3955  Asp Met Lys Lys Ala Val Ala His Met Lys Tyr Met Gly Lys Gly
      3957          680          685          690
      3961  Ser Met Thr Gly Leu Ala Leu Lys His Met Phe Glu Arg Ser Phe
      3963          695          700          705
      3967  Thr Gln Gly Glu Gly Ala Arg Pro Leu Ser Thr Arg Val Pro Arg
      3969          710          715          720
      3973  Ala Ala Ile Val Phe Thr Asp Gly Arg Ala Gln Asp Asp Val Ser
      3975          725          730          735

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DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```

4325 <211> LENGTH: 390
4327 <212> TYPE: PRT
4329 <213> ORGANISM: Homo Sapien
4333 <400> SEQUENCE: 39
4335 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe
4337      1                      5                      10                      15
4341 Leu Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln
4343                      20                      25                      30
4347 Leu Gln Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly
4349                      35                      40                      45
4353 Gly Glu Val Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val
4355                      50                      55                      60
4359 Ser Ser Ser Gln Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe
4361                      65                      70                      75
4365 Lys Gln Lys Glu Lys Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly
4367                      80                      85                      90
4371 Val Thr Thr Ser Lys Pro Gly Val Ser Leu Val Tyr Ser Met Pro
4373                      95                      100                     105
4377 Ser Arg Asn Leu Ser Leu Arg Leu Glu Gly Leu Gln Glu Lys Asp
4379                      110                     115                     120
4383 Ser Gly Pro Tyr Ser Cys Ser Val Asn Val Gln Asp Lys Gln Gly
4385                      125                     130                     135
4389 Lys Ser Arg Gly His Ser Ile Lys Thr Leu Glu Leu Asn Val Leu
4391                      140                     145                     150
4395 Val Pro Pro Ala Pro Pro Ser Cys Arg Leu Gln Gly Val Pro His
4397                      155                     160                     165
4401 Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser Pro Arg Ser Lys
4403                      170                     175                     180

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```
E--> 4405 ++++++++?%+++++++?`+++++++? ?????????????????5?5?5?5?
E--> 4407 ?5?????+++++++? ?+++++++? ?+++++++? ?????????????????
E--> 4409 ??????????????+++++++?%+++++++?`+++++++? ?????4?o?5???
E--> 4411 ??5????5?????????????+++++++? ?+++++++? ?+++++++? ??????
E--> 4413 ??????????????????????????+++++++?%+++++++?`+++++++
E--> 4415 ???5????????????????????5????5?????+++++++? ?+++++++?
E--> 4417 ?+++++++? ??????????????????????????????????+++++++?
E--> 4419 %+++++++?`+++++++? ?????????5????5?5?o????5?5?????????+
E--> 4421 ++++++++?+++++++? ?+++++++? ??????????????????????
E--> 4423 ??????+++++++?%+++++++?`+++++++? ??????o?????????5??
E--> 4425 ?5???4?????????+++++++? ?+++++++? ?+++++++? ?????????????
E--> 4427 ??????????????????????+++++++?%+++++++?`+++++++? ???4???
E--> 4429 ???4?5????5?5????5?????+++++++? ?+++++++? ?+++++++?
E--> 4431 ?????????????????????????????????????????????????
E--> 4433 ?????????????????????????????????????????????????
E--> 4435 ?????????????????????????????????????????????4?????
E--> 4437 ?????????????????????????????????????????????????
E--> 4439 ?????????????????????????????????????????????????
E--> 4441 ?????????????????????????????????????4????????4??
E--> 4443 ?????4????????????????????4????????????????
E--> 4445 ?????????????????4????????????????????????
```

same

ref p 20

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

E--> 4447 ???
E--> 4449 ???4????????
E--> 4451 ???4????????
E--> 4453 ???
E--> 4455 ???
E--> 4457 ?????????????????????4????????????????4????????????
E--> 4459 ???
E--> 4461 ???
E--> 4463 ?????????????????????????????????4????????????????
E--> 4465 ?????????????????4????????????????????????????????
E--> 4467 ???
E--> 4469 ?????????????????????????????????????4????????????
E--> 4471 ?????????????????4????????????????????????????????
E--> 4473 ?4????????????????????????????????4????????????
E--> 4475 ???
E--> 4477 ???
E--> 4479 ???
E--> 4481 ?????????????????????????4????????????????????
E--> 4483 ???
4485 ?????????????????????4????????????4????????4?
E--> 4487 ?????????????????????????????????????4????
E--> 4489 ???
E--> 4491 ?4????5????5????5????5????+?+++++?+++++?++
E--> 4493 ++++++? ?????????????????????????????????+++++?%+++
E--> 4495 +++++? '+++++?5????5????5????5????5????5?+++++
E--> 4497 +++?+++++?+++++? ?????????????????????????????
E--> 4499 ??+++++?%+++++? '+++++? ??????????????o5????
E--> 4501 ?4?o????+++++?+++++?+++++? ?????????????
E--> 4503 ?????????????+++++?%+++++? '+++++? ?????
E--> 4505 ?????????5????4?+++++?+++++?+++++? ?????
E--> 4507 ?????????????????????????+++++?%+++++? '+++++
E--> 4509 ?????????????????????????o????????+++++?+++++?
E--> 4511 ?+++++? ?????????????????????????????+++++?
E--> 4513 %+++++? '+++++? ?????????????????5????????+
E--> 4515 +++++?+++++?+++++? ?????????????????????
E--> 4517 ??????+++++?%+++++? '+++++???
E--> 4519 Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro Ser Phe Gln
4521 185 190 195
4525 Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser Leu Ser
4527 200 205 210
4531 Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys Lys
4533 215 220 225
4537 Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
4539 230 235 240
4543 Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val
4545 245 250 255
4549 Gly Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu
4551 260 265 270
4555 Tyr His Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile

same

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

4557 275 280 285
 4561 Lys Glu Asp Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser
 4563 290 295 300
 4567 Ser Asp Thr Ile Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser
 4569 305 310 315
 4573 Ala Arg Ala Leu Arg Pro Pro His Gly Pro Pro Arg Pro Gly Ala
 4575 320 325 330
 4579 Leu Thr Pro Thr Pro Ser Leu Ser Ser Gln Ala Leu Pro Ser Pro
 4581 335 340 345
 4585 Arg Leu Pro Thr Thr Asp Gly Ala His Pro Gln Pro Ile Ser Pro
 4587 350 355 360
 4591 Ile Pro Gly Gly Val Ser Ser Ser Gly Leu Ser Arg Met Gly Ala
 4593 365 370 375
 4597 Val Pro Val Met Val Pro Ala Gln Ser Gln Ala Gly Ser Leu Val
 4599 380 385 390
 5017 <210> SEQ ID NO: 49
 5019 <211> LENGTH: 690
 5021 <212> TYPE: PRT
 5023 <213> ORGANISM: Homo Sapien *pp 22-25*
 5027 <400> SEQUENCE: 49
 5029 Met Lys Arg Leu Pro Leu Leu Val Val Phe Ser Thr Leu Leu Asn
 5031 1 5 10 15
 5035 Cys Ser Tyr Thr Gln Asn Cys Thr Lys Thr Pro Cys Leu Pro Asn
 5037 20 25 30
 5041 Ala Lys Cys Glu Ile Arg Asn Gly Ile Glu Ala Cys Tyr Cys Asn
 5043 35 40 45
 5047 Met Gly Phe Ser Gly Asn Gly Val Thr Ile Cys Glu Asp Asp Asn
 5049 50 55 60
 5053 Glu Cys Gly Asn Leu Thr Gln Ser Cys Gly Glu Asn Ala Asn Cys
 5055 65 70 75
 5059 Thr Asn Thr Glu Gly Ser Tyr Tyr Cys Met Cys Val Pro Gly Phe
 5061 80 85 90
 5065 Arg Ser Ser Ser Asn Gln Asp Arg Phe Ile Thr Asn Asp Gly Thr
 5067 95 100 105
 5071 Val Cys Ile Glu Asn Val Asn Ala Asn Cys His Leu Asp Asn Val
 5073 110 115 120
 5077 Cys Ile Ala Ala Asn Ile Asn Lys Thr Leu Thr Lys Ile Arg Ser
 5079 125 130 135
 5083 Ile Lys Glu Pro Val Ala Leu Leu Gln Glu Val Tyr Arg Asn Ser
 5085 140 145 150
 5089 Val Thr Asp Leu Ser Pro Thr Asp Ile Ile Thr Tyr Ile Glu Ile
 5091 155 160 165
 5095 Leu Ala Glu Ser Ser Ser Leu Leu Gly Tyr Lys Asn Asn Thr Ile
 5097 170 175 180
 5101 Ser Ala Lys Asp Thr Leu Ser Asn Ser Thr Leu Thr Glu Phe Val
 5103 185 190 195
 5107 Lys Thr Val Asn Asn Phe Val Gln Arg Asp Thr Phe Val Val Trp
 5109 200 205 210
 5113 Asp Lys Leu Ser Val Asn His Arg Arg Thr His Leu Thr Lys Leu

DATE: 12/19/2001

TIME: 10:29:07

Output Set: N:\CRF3\12192001\I665350A.raw

file://C:\Crf3\Outhold\VsrI665350A.htm

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
E--> 5225 ??????4????????????????????4????????????????
E--> 5227 ?????????????????????????????????????????
      5229 ??????????4????????????????????????????????4
E--> 5231 ?????????????????????????????????4????????????
E--> 5233 ?????????????????????????????4????????????????
E--> 5235 ?????????????????????????????????????????4???
E--> 5237 ?????????????????4????????4????????????????
E--> 5239 ?4????????4????????????????4????????????
E--> 5241 ?????????????????????????????????????4????
E--> 5243 ?????????????????????????????????????????
E--> 5245 ?????????????????????????????????????????
E--> 5247 ?????????????????????4????????????????????
E--> 5249 ?????????????????????????????????????????
E--> 5251 ?????????????????????????????????4????????
E--> 5253 ?????????????????????????????????????????
E--> 5255 ?????????????????????4????????????????????
E--> 5257 ?????????????????????????????????4????????
E--> 5259 ?????????????????????????????????????????
E--> 5261 ?????????????4????????????????????????????
      5263 ?????????????????????????????????????4
E--> 5265 ?????????4????????????????????????????4????
E--> 5267 ?????????4????????4????????????????????
E--> 5269 ?????????????????????????????????4??????
E--> 5271 ?????????????????????????????????????????
E--> 5273 ?????????????????????4????????????????????
E--> 5275 ?????????4????????4????????????????????
E--> 5277 ?????????????????????????????????????????
E--> 5279 ?????????????????????????????????????4????
E--> 5281 ?5????5?5????????5?5??+????+????+????+??
E--> 5283 ?????????????????????????????+????+?%????+?`++
E--> 5285 +++++? ??????5????????5????????+????+?++++
E--> 5287 +++++?+????+????????????????????????+????+
E--> 5289 +?%+++++?`+????+??5?????5????????5??????
E--> 5291 ?+????+?+????+?+????+? ?????????????????
E--> 5293 ??????+????+?%+????+?`+????+? ??????o???
E--> 5295 ??????o????+????+?+????+?+????+? ??????
E--> 5297 ?????????????????+????+?%+????+?`+????+?
E--> 5299 ?????????????5????????+????+?+????+?+????+?
E--> 5301 ?????????????????????????????+????+?%+????+?
E--> 5303 `+????+? ??????o?5?????o????????5??+????+?+
E--> 5305 +++++?+????+? ?????? ?????? ??????+
E--> 5307 +++++?%+????+?`+????+?o???5????????5???
E--> 5309 5????+????+?+????+?+????+? ??????
E--> 5311 ?????????+????+?%+????+?`+????+?o???5????
E--> 5313 ?????????5????+????+?+????+?+????+? ?????
E--> 5315 ?????????????????????+????+?%+????+?`+????+?
E--> 5317 ?????????5???o????????o?????+????+?+????+?+
E--> 5319 +++++? ?????? ?????? ?????? ??????+????+?%+
E--> 5321 +++++?`+????+? ?????4???4o????o????????+????
```


DATE: 12/19/2001

TIME: 10:29:07

Output Set: N:\CRF3\12192001\I665350A.raw

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

E--> 5463 ??????o????4??????o?????5?????+????+?
E--> 5465 ?+++++????????????????????????????????+?
E--> 5467 '+++++?%+++++????5????????5?4????????+
E--> 5469 ++++++?+????+?+????+?????????????????
E--> 5471 ??????+????+?'+++++?%+++++?????5????5???
E--> 5473 ??????+????+?+????+?+????+?????????
E--> 5475 ??????+????+?'+++++?%+++++????5???
E--> 5477 ?????5??5??5??5??5??5??+????+?+????+?
E--> 5479 ??????+????+?'+++++?
E--> 5481 %+++++????5?5??5??5??5??5??o?4????+??+
E--> 5483 ++++++?+????+?+????+?+????+?+????+?
E--> 5485 ++++++?'+++++?%+++++????5?????????
E--> 5487 ??5??+????+?+????+?+????+?+????+?
E--> 5489 ??????+????+?'+++++?%+++++?????????
E--> 5491 ???o?5????5?????+????+?+????+?+????+?
E--> 5493 ??????+????+?'+++++?%+++++?
E--> 5495 ??5?5?????+????+?+????+?+?
E--> 5497 ++++++?????+????+?+????+?+?
E--> 5499 ++++++?%+++++???

E--> 5501 Cys Ala Arg Gly Ala Leu Ala Leu Leu Phe Leu Leu Gly Thr Thr
5503 620 625 630
5507 Trp Ile Phe Gly Val Leu His Val Val His Ala Ser Val Val Thr
5509 635 640 645
5513 Ala Tyr Leu Phe Thr Val Ser Asn Ala Phe Gln Gly Met Phe Ile
5515 650 655 660
5519 Phe Leu Phe Leu Cys Val Leu Ser Arg Lys Ile Gln Glu Glu Tyr
5521 665 670 675
5525 Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe Gly Cys Leu Arg
5527 680 685 690

5935 <210> SEQ ID NO: 59
5937 <211> LENGTH: 216
5939 <212> TYPE: PRT
5941 <213> ORGANISM: Homo Sapien
5945 <400> SEQUENCE: 59

5947 Met Arg Ser Gly Cys Val Val Val His Val Trp Ile Leu Ala Gly
5949 1 5 10 15
5953 Leu Trp Leu Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala
5955 20 25 30
5959 Gly Pro His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
5961 35 40 45
5965 His Leu Tyr Thr Ser Gly Pro His Gly Leu Ser Ser Cys Phe Leu
5967 50 55 60
5971 Arg Ile Arg Ala Asp Gly Val Val Asp Cys Ala Arg Gly Gln Ser
5973 65 70 75
5977 Ala His Ser Leu Leu Glu Ile Lys Ala Val Ala Leu Arg Thr Val
5979 80 85 90
5983 Ala Ile Lys Gly Val His Ser Val Arg Tyr Leu Cys Met Gly Ala
5985 95 100 105
5989 Asp Gly Lys Met Gln Gly Leu Leu Gln Tyr Ser Glu Glu Asp Cys

OK

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
5991          110          115          120
5995 Ala Phe Glu Glu Ile Arg Pro Asp Gly Tyr Asn Val Tyr Arg
5997          125          130          135
6001 Ser Glu Lys His Arg Leu Pro Val Ser Leu Ser Ser Ala Lys Gln
6003          140          145          150
E--> 6005 +++++++?%+++++++?`+++++++???o????????5????????????
E--> 6007 ??????+++++++?+++++++?+++++++?+++++++?+++++++?
E--> 6009 ??????+++++++?+++++++?`+++++++?5??5??
E--> 6011 ??5????????5?5?+++++++?+++++++?+++++++?
E--> 6013 ??????+++++++?%+++++++?`+++++++
E--> 6015 ??????
E--> 6017 ??????4????????
E--> 6019 ??????4????????4????????4
6021 ??????4????????4????????4
E--> 6023 ??????4????????4????????4
E--> 6025 ??????
E--> 6027 ??????4????????4
E--> 6029 ??????4????????4
E--> 6031 ??????
E--> 6033 ??????
E--> 6035 ??????
E--> 6037 ??????
E--> 6039 ??????
E--> 6041 ??????
E--> 6043 ??????
E--> 6045 ??????
E--> 6047 ??????
E--> 6049 ??????
E--> 6051 ??????
E--> 6053 ??????4????????4
E--> 6055 ??????
E--> 6057 ??????4????????4
E--> 6059 ??????4
E--> 6061 ??????
E--> 6063 ??????
E--> 6065 ??????
E--> 6067 4????????4????????4
E--> 6069 ??????
E--> 6071 ??????
E--> 6073 ??????
E--> 6075 ??????4
E--> 6077 ??????
E--> 6079 ??????4????????4
E--> 6081 ??????4????????4
E--> 6083 ??????4
E--> 6085 ??????4
E--> 6087 ??????4
E--> 6089 ??????4
E--> 6091 ??????4
```

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

E--> 6093 ???
E--> 6095 ???4?????
E--> 6097 ?????4??
E--> 6099 ???
E--> 6101 ?????4????????????????????????????????????4????????
E--> 6103 ?????????????????????????????????????4????????????
E--> 6105 ?????????????????????????????????????4????????????
E--> 6107 ?????????????????????4????????????????????4????
E--> 6109 ?????????????4????????????????????4????????
E--> 6111 ?4????????4????4????????????????????????????
E--> 6113 ??4????????????????????o???5?????+?????????????++
E--> 6115 ++++++???%+++
E--> 6117 +++++?'+????????????????????o???o???????5??+++++
E--> 6119 +++?+++++?+????????????????????????????????????
E--> 6121 ??+?????%+?????'+????????????o???????o????
E--> 6123 ?????????+?????+?????+?????+?????+?????+?????
E--> 6125 ?????????+?????%+?????'+?????+?????+?????
E--> 6127 ?????????5???4????+?????+?????+?????+?????
E--> 6129 ?????????+?????+?????+?????+?????+?????+?????
E--> 6131 ?????5?
E--> 6133 ?+++++?+?????+?????+?????+?????+?????+?????+
E--> 6135 %+++++?'+?????+?????
E--> 6137 Arg Gln Leu Tyr Lys Asn Arg Gly Phe Leu Pro Leu Ser His Phe
6139 155 160 165
6143 Leu Pro Met Leu Pro Met Val Pro Glu Glu Pro Glu Asp Leu Arg
6145 170 175 180
6149 Gly His Leu Glu Ser Asp Met Phe Ser Ser Pro Leu Glu Thr Asp
6151 185 190 195
6155 Ser Met Asp Pro Phe Gly Leu Val Thr Gly Leu Glu Ala Val Arg
6157 200 205 210
6161 Ser Pro Ser Phe Glu Lys
6163 215
6347 <210> SEQ ID NO: 64
6349 <211> LENGTH: 312
6351 <212> TYPE: PRT
6353 <213> ORGANISM: Homo Sapien
6357 <400> SEQUENCE: 64
6359 Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg
6361 1 5 10 15
6365 Tyr Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser
6367 20 25 30
6371 Ala Pro Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu
6373 35 40 45
6377 Ala Ile Leu Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg
6379 50 55 60
6383 Leu Glu Trp Lys Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr
6385 65 70 75
E--> 6389 ++++++?+?????+?????+?????+?????+?????+?????
E--> 6391 ??????+?????%+?????'+?????+?????+5?5?5?5?5?5?5?5?

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/665,350A

DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

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E--> 6393 ??????5?5?2?2?++++++?2?++++++?2?++++++?2?2?2?2?2?2?2?
E--> 6395 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6397 ??????5?2?++++++?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6399 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6401 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6403 ??????4?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6405 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6407 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6409 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6411 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6413 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6415 ??????4?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6417 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6419 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6421 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6423 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6425 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6427 ??????4?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6429 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6431 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6433 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6435 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6437 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6439 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6441 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6443 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6445 +++++?++++++?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6447 ++?%++++++?`++++++?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6449 ?++++++?++++++?++++++?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6451 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6453 ??????2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?2?
E--> 6455  Gln Gln Thr Leu Gln Gly Asp Phe Lys Asn Arg Ala Glu Met Ile
      6457              80              85              90
      6461  Asp Phe Asn Ile Arg Ile Lys Asn Val Thr Arg Ser Asp Ala Gly
      6463              95              100             105
      6467  Lys Tyr Arg Cys Glu Val Ser Ala Pro Ser Glu Gln Gly Gln Asn
      6469              110             115             120
      6473  Leu Glu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro Ala
      6475              125              130             135
      6479  Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
      6481              140              145             150
      6485  Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu
      6487              155              160             165
      6491  Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg
      6493              170              175             180
      6497  Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys
      6499              185              190             195
      6503  Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly
      6505              200              205             210

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Same

DATE: 12/19/2001

TIME: 10:29:07

Output Set: N:\CRF3\12192001\I665350A.raw

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DATE: 12/19/2001

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

[illegible]

RAW SEQUENCE LISTING

DATE: 12/19/2001

PATENT APPLICATION: US/09/665,350A

TIME: 10:29:07

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

```
7447 ?????4????????4????????????????????????????????4?
E--> 7449 ?????????????????????????????????4????????????????
E--> 7451 ?????????????????????????????????????????????????
E--> 7453 ?????????????????4??o?4??5????????5?5??5??+
E--> 7455 ?+++++++?+++++++?+++++++? ?????????????????????
E--> 7457 ??????+++++++?%+++++++? '+++++++? ???5??????5?????
E--> 7459 o?????????+++++++?+++++++?+++++++? ?????????????
E--> 7461 ??????????????????+++++++?%+++++++? '+++++++? ??5?????
E--> 7463 ??????5?????????????5??+++++++?+++++++?+++++++???
E--> 7465 ?????????????????????????????????+++++++?%+++++++? '+++
E--> 7467 ++++? ?????????5?????5?o?5????????5??+++++++?+++++++
E--> 7469 +?+++++++? ?????????????????????????????????+++++++
E--> 7471 ?%+++++++? '+++++++? ??????5?5?5?????5??5?5??5??
E--> 7473 ?+++++++? ?+++++++? ?+++++++? ?????????????????????
E--> 7475 ??????????+++++++?%+++++++? '+++++++? ??5?5????????
E--> 7477 ?????????5?????+++++++? ?+++++++? ?+++++++? ?????????
E--> 7479 ??????????????????????+++++++?%+++++++? '+++++++? ???
E--> 7481 ??o???o???5?????5?5?5?4??+++++++? ?+++++++? ?+++++++
E--> 7483 +? ?????????????????????????????????+++++++?%+++++++
E--> 7485 ? '+++++++? ??5?5?????5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7487 ?+++++++? ?+++++++? ?????????????????????????????
E--> 7489 ?+++++++?%+++++++? '+++++++? ??????????o? ?????5????
E--> 7491 ??????+++++++? ?+++++++? ?+++++++? ?????????????????
E--> 7493 ??????????????+++++++?%+++++++? '+++++++? ?????????
E--> 7495 ??????o? ??????4?5? ?+++++++? '+++++++?%+++++++? ??5?
E--> 7497 ?5?5?5?5?5?5?4?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7499 ?????????????????????????????????????+++++++? '+++++++
E--> 7501 ?%+++++++? ?????????????????5?5?5?5?5?5?5?5?5?5?5?
E--> 7503 ?+++++++? ?+++++++? ?????????????????????????????
E--> 7505 ?+++++++? '+++++++?%+++++++? ?????5?5?5?5?5?5?5?5?
E--> 7507 5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7509 ??????????????+++++++? '+++++++?%+++++++? ??????o?4??
E--> 7511 ?4?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7513 ?????????????????????????????????+++++++? '+++++++?%+++++++
E--> 7515 +? ??????????????????o?4?4?5?5?5?5?5?5?5?5?5?5?5?
E--> 7517 ?+++++++? ?????????????????????????????????????+++++++
E--> 7519 '+++++++?%+++++++? ?????????????????????????????5??+
E--> 7521 ++++++++? ?+++++++? ?+++++++? ?????????????????????
E--> 7523 ??????+++++++? '+++++++?%+++++++? ??????5??o? ?????
E--> 7525 ??????5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7527 ??????????????????????+++++++? '+++++++?%+++++++? ?????
E--> 7529 ??????5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?5?
E--> 7531 ?????????????????????????????????+++++++? '+++++++
E--> 7533 %+++++++? ??????????????o? ?????????5?5?5?5?5?5?5?
E--> 7535 ++++++++? ?+++++++? ?????????????????????????????++++
E--> 7537 ++++++++? '+++++++?%+++++++? ?????????????5?5?5?5?5?
E--> 7539 ??????+++++++? ?+++++++? ?+++++++? ?????????????????
E--> 7541 ??????????????+++++++? '+++++++?%+++++++? ??????5?5?5?
E--> 7543 ?????o? ?????????????????+++++++?%+++++++? '+++++++? ?????
```


DATE: 12/19/2001

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same

see pp 34-35

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RAW SEQUENCE LISTING

DATE: 12/19/2001

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```
E--> 8051 ?????????4????????????????????????????????4????????
E--> 8053 ?????????????4????????????????????????????????4????
E--> 8055 ?????????????????????????????????????????????????
E--> 8057 ?????????????????????????????????????????????????
E--> 8059 ?????????????????????????4????????4????????????
E--> 8061 ?????????????????????????????????????????????????
E--> 8063 ?????????????????????????????????????????????????
E--> 8065 ?????????????????????????????????????????????????
E--> 8067 ?????????????????????????????????????????????????
E--> 8069 ?????????????????????????????????????????????????
E--> 8071 ?????????????????????????????????????????????????
E--> 8073 ?????????????????????????????????????????????????
      8075 ?????????????????????????????????????????????4
E--> 8077 ?????????????????????????????????????????????????
E--> 8079 ?????????????4????????????????????????????????
E--> 8081 ?????4????????????????????????????????????????
E--> 8083 ?????????????????????????????????????????4????
E--> 8085 ?????????????????????????4????????????????????
      8087 ?????????????????????45????45????????5
E--> 8089 ?5????5?????+????+????+????+????+????+????+
E--> 8091 ?????????????????+????+?%+????+?`+????+????+
E--> 8093 ?????????????????+????+?+????+?+????+?+????+
E--> 8095 ?????????????????+????+?%+????+?`+????+
E--> 8097 +++?????o????????????o?????+????+?+????+
E--> 8099 +?+????+?+????+?+????+?+????+?+????+?+????+
E--> 8101 %+????+?`+????+?+?????o?????55????+
E--> 8103 +????+?+????+?+????+?+?????55????+
E--> 8105 ???5?+????+?+????+?+????+?+?????55????+
E--> 8107 ?????????+????+?`+????+?%+????+?+?????55????+
E--> 8109 ?????5????+????+?+????+?+????+?+????+?+????+
E--> 8111 ?????????+????+?`+????+?%+????+
E--> 8113 ???4?????o?????o?????5?+????+?+????+
E--> 8115 ?+????+?+????+?+????+?+????+?+????+?+????+
E--> 8117 `+????+?%+????+?+?????o?????55????+
E--> 8119 +????+?+????+?+????+?+????+?+????+?+????+
E--> 8121 ?????+????+?`+????+?%+????+?+?????55????+
E--> 8123 ???5????+????+?+????+?+????+?+????+?+????+
E--> 8125 ?????????+????+?`+????+?%+????+?+????+
E--> 8127 ?????????+????+?+????+?+????+?+????+?+????+
E--> 8129 ?????????+????+?`+????+
E--> 8131 %+????+?+?????5?o?????55????+
E--> 8133 +????+?+????+?+????+?+????+?+????+?+????+
      8135 +????+?`+????+?%+????+?+?????o?????5?
E--> 8137 ?????+????+?+????+?+????+?+????+?+????+
E--> 8139 ?????????+????+?`+????+?%+????+?+?????55????+
E--> 8141 ?5?????o?5????+????+?+????+?+????+?+????+
E--> 8143 ?????????+????+?`+????+?%+????+
E--> 8145 ?????4?5?5????+????+?+????+?+????+?+????+
```

↓
The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

Listing

<141> 2000-09-18

<150> PCT/US00/04414

<151> 2000002022

<150> US 60/143,048

<151> 1999007007

<150> US 60/145,698

<151> 1999007026

<150> US 60/146,222

<151> 1999007028

<150> PCT/US99/20594

<151> 1999009008

<150> PCT/US99/20944

<151> 1999009013

<150> PCT/US99/21090

<151> 1999009015

<150> PCT/US99/21547

<151> 1999009015

<150> PCT/US99/23089

<151> 1999010005

<150> PCT/US99/28214

<151> 1999011029

<150> PCT/US99/28313

<151> 1999011030

<150> PCT/US99/28564

<151> 1999012002

<150> PCT/US99/28565

<151> 1999012002

<150> PCT/US99/30095

<151> 1999012016

<150> PCT/US99/30911

<151> 1999012020

<150> PCT/US99/30999

<151> 1999012020

<150> PCT/US00/00219

<151> 2000001005

<160> 423

<210> 1

<211> 1825

<212> DNA

<213> Homo Sapien

<400> 1

actgcacctc ggttctatcg attgaattcc ccggggatcc tctagagatc 50

cctcgacctc gacccacgcg tccggggcgg agcagcacgg ccgcaggacc 100

delete these format markers and replace with hyphens

VERIFICATION SUMMARY

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Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

L:75 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:77 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:83 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:85 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:91 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:93 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:99 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:101 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:107 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:109 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:115 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:117 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:123 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:125 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:131 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:133 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:139 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:141 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:147 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:149 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:155 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:157 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:163 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:165 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:171 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:173 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:179 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:181 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:187 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:189 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:195 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:199 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
 L:201 M:259 W: Allowed number of lines exceeded, <151> PRIOR FILING DATE:
 L:451 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:451 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:453 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
 L:453 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:453 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 M:332 Repeated in SeqNo=2
 L:455 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:455 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:457 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:457 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:459 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:459 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:461 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:461 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:463 M:333 E: Wrong sequence grouping, Amino acids not in groups!

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Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

L:463 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:465 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:465 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:467 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:467 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:469 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:469 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:471 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:471 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:473 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:473 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:475 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:475 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:545 M:252 E: No. of Seq. differs, <211>LENGTH:Input:353 Found:357 SEQ:2
L:855 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:855 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:857 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
L:857 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:857 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
M:332 Repeated in SeqNo=4
L:859 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:859 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:861 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:861 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:863 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:863 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:865 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:865 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:867 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:867 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:869 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:869 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:871 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:871 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:873 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:873 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:875 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:875 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:877 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:877 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:879 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:881 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:883 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:883 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:885 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:885 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:887 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:887 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1

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Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\12192001\I665350A.raw

L:889 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:889 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:891 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:891 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:893 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:893 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:895 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:895 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:897 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:897 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:899 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:899 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:901 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:901 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:903 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:903 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:905 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:905 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:909 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:909 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:911 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:911 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:913 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:913 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:917 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:917 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:919 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:919 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:921 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:921 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:923 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:923 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:925 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:925 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:929 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:929 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:931 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:931 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:933 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:933 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:935 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:1051 M:252 E: No. of Seq. differs, <211>LENGTH:Input:379 Found:398 SEQ:4
 L:1477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
 L:1481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
 L:1485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
 L:1489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
 L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
 L:2399 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:28
 M:332 Repeated in SeqNo=28

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Output Set: N:\CRF3\12192001\I665350A.raw

L:3097 M:252 E: No. of Seq. differs, <211>LENGTH:Input:660 Found:714 SEQ:28
 L:3529 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:34
 M:332 Repeated in SeqNo=34
 L:4095 M:252 E: No. of Seq. differs, <211>LENGTH:Input:915 Found:948 SEQ:34
 L:4407 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39
 M:332 Repeated in SeqNo=39
 L:4599 M:252 E: No. of Seq. differs, <211>LENGTH:Input:390 Found:404 SEQ:39
 L:5153 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:49
 M:332 Repeated in SeqNo=49
 L:5527 M:252 E: No. of Seq. differs, <211>LENGTH:Input:690 Found:718 SEQ:49
 L:5557 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
 L:6007 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59
 M:332 Repeated in SeqNo=59
 L:6163 M:252 E: No. of Seq. differs, <211>LENGTH:Input:216 Found:223 SEQ:59
 L:6391 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64
 M:332 Repeated in SeqNo=64
 L:6547 M:252 E: No. of Seq. differs, <211>LENGTH:Input:312 Found:315 SEQ:64
 L:7339 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:71
 M:332 Repeated in SeqNo=71
 L:7655 M:252 E: No. of Seq. differs, <211>LENGTH:Input:259 Found:296 SEQ:71
 L:7879 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:73
 M:332 Repeated in SeqNo=73
 L:9441 M:252 E: No. of Seq. differs, <211>LENGTH:Input:620 Found:762 SEQ:73
 L:9837 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:84
 M:332 Repeated in SeqNo=84
 L:10267 M:252 E: No. of Seq. differs, <211>LENGTH:Input:398 Found:425 SEQ:84
 L:11275 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:96
 M:332 Repeated in SeqNo=96
 L:11677 M:252 E: No. of Seq. differs, <211>LENGTH:Input:490 Found:523 SEQ:96
 L:12465 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:109
 M:332 Repeated in SeqNo=109
 L:12823 M:252 E: No. of Seq. differs, <211>LENGTH:Input:420 Found:444 SEQ:109
 L:13031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
 L:13855 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:127
 M:332 Repeated in SeqNo=127
 L:14867 M:252 E: No. of Seq. differs, <211>LENGTH:Input:282 Found:379 SEQ:127
 L:15099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
 L:15671 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:137
 M:332 Repeated in SeqNo=137
 L:16295 M:252 E: No. of Seq. differs, <211>LENGTH:Input:382 Found:451 SEQ:137
 L:17403 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:153
 M:332 Repeated in SeqNo=153
 L:18347 M:252 E: No. of Seq. differs, <211>LENGTH:Input:310 Found:423 SEQ:153
 L:18719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:159
 M:332 Repeated in SeqNo=159
 L:18827 M:252 E: No. of Seq. differs, <211>LENGTH:Input:300 Found:310 SEQ:159
 L:20031 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
 L:20213 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:175
 M:332 Repeated in SeqNo=175

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L:21369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:21413 M:252 E: No. of Seq. differs, <211>LENGTH:Input:636 Found:740 SEQ:175
L:22841 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:190
M:332 Repeated in SeqNo=190
L:24077 M:252 E: No. of Seq. differs, <211>LENGTH:Input:607 Found:749 SEQ:190
L:25169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:25173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:25319 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:207
M:332 Repeated in SeqNo=207
L:25381 M:252 E: No. of Seq. differs, <211>LENGTH:Input:296 Found:304 SEQ:207
L:25731 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:213
M:332 Repeated in SeqNo=213
L:25903 M:252 E: No. of Seq. differs, <211>LENGTH:Input:360 Found:369 SEQ:213
L:26719 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:227
M:332 Repeated in SeqNo=227
L:26961 M:252 E: No. of Seq. differs, <211>LENGTH:Input:550 Found:268 SEQ:227
L:205 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (423) Counted (227)

This application file contains additional errors !

Only the first 1000 errors are shown above !